

Title (en)  
Chrominance signal processing apparatus and method

Title (de)  
Schaltung und Verfahren zur Verarbeitung von Chrominanzsignalen

Title (fr)  
Appareil et procédé de traitement de signaux de chrominance

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Application  
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Abstract (en)  
The present invention relates to a chrominance signal processing apparatus (510) and method for providing optimal color processing according to the hue of the color image data. Red, green and blue signals are input to a chroma composition ratio determination circuit (550) that generates and outputs the RGB color composition ratio ( $\pm : ^2 : ^3$ ). A chroma suppression luminance signal generating circuit (560) then generates a chroma suppression luminance signal Ya based on the RGB signals and the color composition ratio. A chroma suppression gain determination circuit (570) outputs the gain for the chroma suppression luminance signal based on a table in which output gain setting values corresponding to the chroma suppression luminance signals are recorded. Multipliers (581, 582) then multiply input color-difference signals Cr, Cb by the gain and output a suppressed color-difference signals (Cr x G, Cb x G) according to the color composition ratio ( $\pm : ^2 : ^3$ )

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